OUTSIDE HUMIDITY TRANSMITTER WITH SHIELD

HSOB Series

The outside humidity transmitter uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of the-art digital linearization and temperature compensated circuitry to monitor humidity levels. It is available in a weatherproof enclosure that provides ease of installation and protection from the elements. A sun and wind shield is provided to prevent false readings.

PRODUCT HIGHLIGHTS

* Compact form factor enclosure with soft close cover
* IP 65 Enclosure
* Slotted mounting holes angled for ease of field installation
* Custom branding available
* Available with 4-20mA, 0-5Vdc or 0-10Vdc analog outputs
* Three temperature ranges, 0-35C, 0-50C or 0-100C options.
* PCB conformal coated for environmental protection.

|  |  |
| --- | --- |
| SPECIFICATIONS |  |
| SENSOR TYPE  | Thermoset polymer based capacitive |
| SENSOR ACCURACY  | ±2, 3, or 5 %RH (5 to 95 %RH) |
| MEASUREMENT RANGE | 0 to 100 %RH |
| TEMPERATURE DEPENDENCE  | ±0.05 %RH/°C |
| HYSTERESIS  | ±1.5 %RH maximum |
| REPEATABILITY  | ±0.5 %RH typical |
| STABILITY  | ±1% RH typical at 50 %RH in 5 years |
| AMBIENT OPERATING RANGE  | -40 to 50°C (-40 to 122°F) |
| OPERATING HUMIDITY  | 5 to 95 %RH non-condensing |
| POWER SUPPLY  | 24 Vac/dc, ±10% |
| CONSUMPTION  | 22 mA |
| INPUT VOLTAGE EFFECT  | Negligible over specified operating range |
| PROTECTION CIRCUITRY  | Reverse voltage protected and output limited |
| OUTPUT SIGNAL  | 4-20 mA current loop, 0-5 Vdc, 0-10 Vdc, or 0-1 Vdc (jumper selectable) |
| OUTPUT DRIVE @ 24 VDC  | Current: 550Ω maxVoltage: 10,000Ω min |
| INTERNAL ADJUSTMENTS  | Clearly marked ZERO and SPAN pots |
| OPTIONAL TEMPERATURE SENSOR  | Various RTD’s and thermistors available as 2 wire resistance output |
| ENCLOSURE  | A: Polycarbonate, UL94-V0, IP65 (NEMA 4X)E: Same as A, with thread adapter (1/2” NPT to M15) and cable gland fitting |
| TERMINATION  | Screw terminal block (14 to 22 AWG) |
| COUNTRY OF ORIGIN  | Canada |